



May 23, 2025

To whom it may concern

Topic: Using of 14-ton reusable flexible soft bulk container technology (FBC) for transportation, handling, storage of grain/wheat/maze.

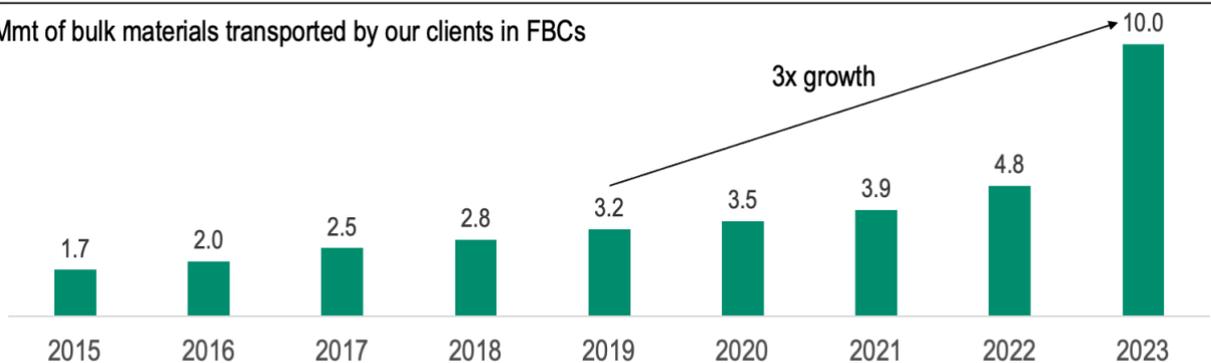
On behalf of the company "Technologies For Logistics (PTY) LTD" (FBC™), we propose to consider for implementation and use at your enterprise the technology of handling, transportation and storage of bulk cargo in reusable 14-ton flexible soft bulk containers (FBCs).



Since 1998, we have been producing unique (FBC) and implementing logistics projects all over the world, handling, transporting and storing bulk materials using our type of reusable packaging.

- Our clients are from the EU, the MENA region and the CIS, they are bulk materials producers, traders of bulk materials, and logistics companies who benefit from a substantial reduction in transport, handling, and storage costs.
- Over the last 5 years, our flexible, reusable containers for bulk goods have facilitated the transport of over 30 million tons of cargo across various transportation modes and countries.

Mmt of bulk materials transported by our clients in FBCs





- Products which we're transshipment:



Cargo: Sulphur

Origin: Turkmenistan (Caspian Sea; Persian gulf)

Destination: Black Sea and East Africa

Our solution: Sulphur is a problematic material for ports and logistics companies. We provide effective environmental solutions to deliver sulphur from Turkmenistan in FBCs, unlocking new trade routes previously unavailable.



Cargo: Potash

Origin: Belorussia

Destination: LatAm / Africa

Our solution: FBCs are used as an intermediate solution to deliver potash from a plant and unload it into a bulk vessel destined for global markets, and as a temporary storage solution close to the end users of this fertilizer in Africa.



Cargo: Cement

Origin: Belgium / Indonesia / CIS

Destination: Scotland / Taiwan / CIS

Our solution: FBCs are used either as an intermediate solution to deliver cement from a cement plant and unload it into a bulk vessel, or as a turnkey A-to-Z solution to deliver material to the end market.



Cargo: Urea / Ammonium Nitrate

Origin: Russia / Azerbaijan / Central Asia

Destination: Global markets

Our solution: FBCs are used as an intermediate solution to deliver urea from a plant to a port, accumulate consignments, and unload them into a bulk vessel destined for global markets.



Cargo: Raw Sugar

Origin: Brazil / Dominicana

Destination: Uzbekistan / Caribbean

Our solution: FBCs are used either as an intermediate solution to deliver sugar from a plant and unload it into a bulk vessel, or as a turnkey A-to-Z solution to deliver material to the end market in containers (TEU version of FBCs).



Cargo: Calcium Carbonate

Origin: Jordan

Destination: Israel / Gulf States

Our solution: FBCs are used either as a turnkey A-to-Z solution to deliver calcium carbonate from Jordan to the end market, addressing the lack of storage capacities and the deficit caused by the recent embargo from Turkey.

- Products which are suitable with FBC:



Raw materials



- ✓ Potash;
- ✓ Phosphate fertilizers;
- ✓ Apatite;
- ✓ Metal ores and concentrates;
- ✓ Quartz sand, limestone, etc.

Industrial cargo



- ✓ Cement
- ✓ Sulfur;
- ✓ Urea / AN;
- ✓ Sodium carbonate and bicarbonate;
- ✓ Plastic granules;
- ✓ Industrial salts;
- ✓ Complex fertilizers;
- ✓ Aluminum oxide.

Agricultural products



- ✓ Grains;
- ✓ Raw sugar;
- ✓ Biofuel (pellets, briquettes);
- ✓ Feed additives;
- ✓ Flour, starch;
- ✓ Gravel, peat;
- ✓ Charcoal.

FBC Technology is:

- **Provides IP-65 protection**
- **Ensures environmental safety during loading and unloading**
- **Reusable for up to 750 cycles**
- **Included in UN recommendations for the transport of dangerous goods**
- **Carries no environmental penalties**
- **Produces no dust**
- **No cleaning costs for transport or storage areas**



We help bulk material producers, railway, logistics companies, ports solve complex logistics problems, such as:

1. Use of flat deck vehicles for transportation of agriculture products, which reduces the cost of transportation;
2. Possibility of organizing a reliable temporary warehouse for bulk cargo and accumulation of a ship lot or an open warehouse without significant investments in infrastructure construction;
3. No need to create a warehouse infrastructure and the ability to store cargo in open areas in FBC;
4. Ensuring the safety of cargo (protection level from moisture and dust - IP65);
5. Ensuring high unloading rates (up to 7,000 tons per day) through special FBC unloading sleeves;
6. The ability to implement storage of agriculture products in FBC in an open area with up to 4 storage tiers;
7. Issues with the lack of the necessary infrastructure: bunkers-silos at certain points of loading / unloading of the product;
8. All equipment (including cranes) will be supplied and managed by our team.

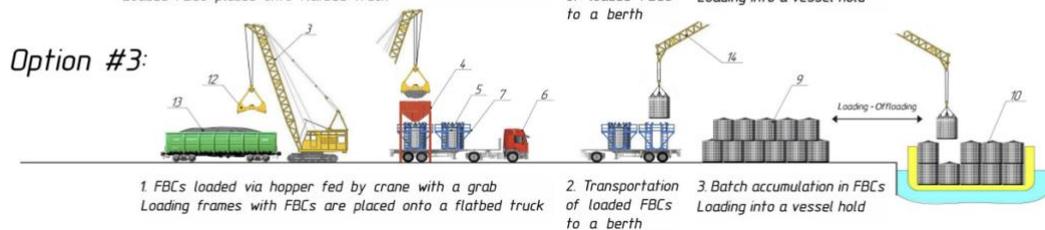
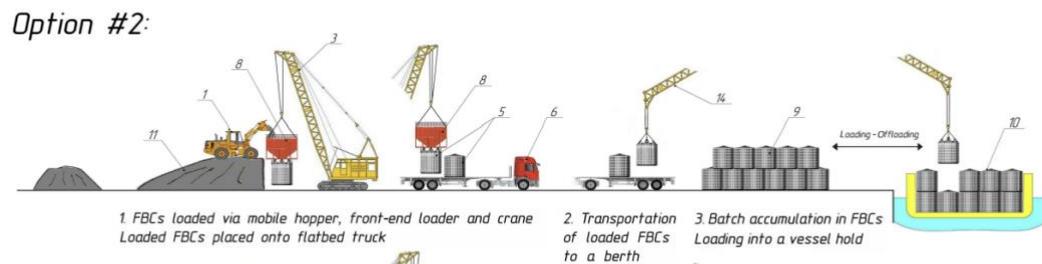
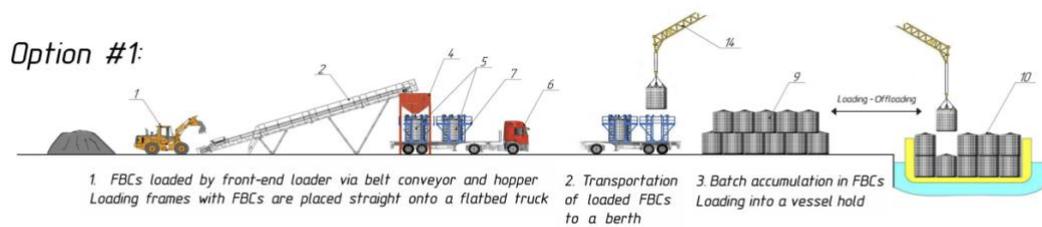


The main advantage of implementing the technology of agriculture products handling using FBC is the ability to increase the efficiency of multimodal logistics and reduce the costs of loading and unloading operations.

An absolute advantage is the ability to store cargo inside the FBC for up to 60 days while maintaining the quality of the products, as evidenced by our latest tests.

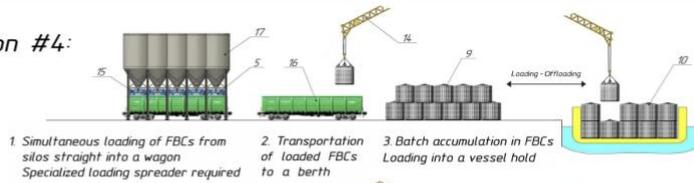
Appendix #1

- FBC Handling Options



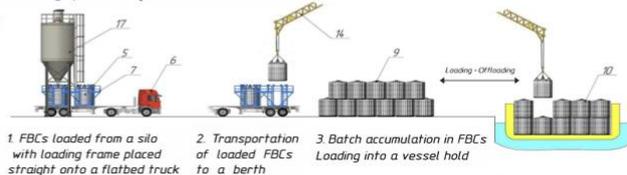


Option #4:



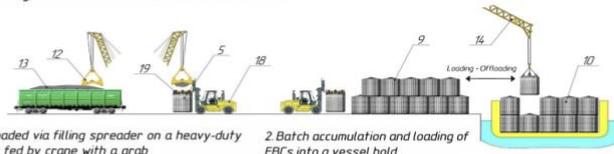
1. Simultaneous loading of FBCs from silos straight into a wagon
Specialized loading spreader required
2. Transportation of loaded FBCs to a berth
3. Batch accumulation in FBCs
Loading into a vessel hold

Option #5:



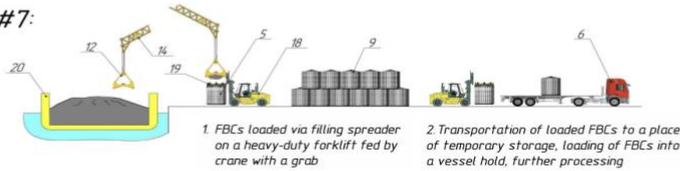
1. FBCs loaded from a silo with loading frame placed straight onto a flatbed truck
2. Transportation of loaded FBCs to a berth
3. Batch accumulation in FBCs
Loading into a vessel hold

Option #6:



1. FBCs loaded via filling spreader on a heavy-duty forklift fed by crane with a grab
2. Batch accumulation and loading of FBCs into a vessel hold

Option #7:



1. FBCs loaded via filling spreader on a heavy-duty forklift fed by crane with a grab
2. Transportation of loaded FBCs to a place of temporary storage, loading of FBCs into a vessel hold, further processing

1. Front-end loader
2. Belt conveyor
3. Crane 32 tons lifting capacity
4. Loading hopper 20m3 capacity bic meters.
5. FBC
6. Flatbed truck
7. Loading frame
8. Mobile hopper with spreader
9. Stack of FBCs
10. Vessel hold
11. Front-end loader ramp
12. Crane grab
13. Wagon with cargo
14. Portal crane
15. Specialized loading spreader
16. Wagon for transportation of FBCs
17. Silos
18. Heavy-duty forklift or reach stacker
19. Loading spreader
20. Bulk / break bulk vessel

Appendix #2

- [Videos and photos from agriculture projects.](#)